Performance Data Sheet

AWG5520EVA

General Information

Model	AWG5520EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	4280	3630					
	Watts	762	756					
	Amps	3.77	3.74					
	Lb/h	55.0	49.0					
-10	Btu/h	5460	4770	4030				
	Watts	829	830	827				
	Amps	4.07	4.07	4.06				
	Lb/h	69.7	63.7	56.4				
-5	Btu/h	6690	5960	5170	4350			
	Watts	891	900	905	903			
	Amps	4.35	4.39	4.41	4.40			
	Lb/h	85.1	78.9	71.4	63.1			
0	Btu/h	8000	7220	6370	5490	4610		
	Watts	947	964	978	986	983		
	Amps	4.60	4.68	4.74	4.77	4.76		
	Lb/h	101	94.8	87.2	78.6	69.4		
5	Btu/h	9410	8560	7640	6700	5750		
	Watts	998	1020	1050	1060	1070		
	Amps	4.83	4.94	5.05	5.13	5.16		
	Lb/h	118	112	104	94.9	85.4		
10	Btu/h	10900	10000	9010	7990	6960	5960	5010
	Watts	1040	1080	1110	1140	1160	1170	1160
	Amps	5.02	5.18	5.33	5.46	5.55	5.58	5.53
	Lb/h	136	130	121	112	102	92.0	81.5
15	Btu/h	12600	11600	10500	9370	8260	7170	6130
	Watts	1080	1120	1170	1210	1240	1260	1260
	Amps	5.19	5.39	5.60	5.78	5.92	6.01	6.02
	Lb/h	156	149	140	131	121	110	98.8
20	Btu/h	14300	13200	12100	10900	9660	8470	7340
	Watts	1110	1170	1220	1280	1320	1350	1370
	Amps	5.32	5.58	5.83	6.07	6.27	6.42	6.50
	Lb/h	177	169	161	151	140	129	117

25	Btu/h	16300	15100	13800	12500	11200	9890	8640
	Watts	1130	1200	1270	1340	1390	1440	1470
	Amps	5.42	5.73	6.04	6.34	6.60	6.82	6.96
	Lb/h	199	192	183	172	161	149	137
30	Btu/h	18400	17100	15700	14300	12800	11400	10100
	Watts	1140	1230	1310	1390	1460	1530	1570
	Amps	5.48	5.85	6.23	6.59	6.91	7.19	7.41
	Lb/h	224	216	206	195	184	171	159
35	Btu/h	20700	19300	17800	16200	14700	13100	11600
	Watts	1150	1250	1340	1440	1530	1610	1670
	Amps	5.51	5.94	6.38	6.80	7.20	7.55	7.84
	Lb/h	250	242	232	221	208	195	182
40	Btu/h	23200	21600	20000	18300	16600	15000	13300
	Watts	1150	1260	1370	1480	1590	1680	1760
	Amps	5.50	5.99	6.50	6.99	7.46	7.89	8.25
	Lb/h	279	270	260	248	235	222	208
45	Btu/h	25900	24200	22500	20600	18800	17000	15200
	Watts	1140	1260	1390	1520	1640	1750	1850
	Amps	5.45	6.01	6.58	7.15	7.70	8.20	8.65
	Lb/h	310	301	290	277	264	250	235
50	Btu/h	28900	27000	25100	23200	21200	19200	17300
	Watts	1120	1260	1400	1540	1680	1810	1930
	Amps	5.35	5.99	6.63	7.28	7.90	8.49	9.02
	Lb/h	343	334	322	309	295	280	265
55	Btu/h	32100	30100	28000	25900	23800	21600	19600
	Watts	1090	1240	1400	1570	1720	1870	2010
	Amps	5.22	5.92	6.65	7.37	8.08	8.75	9.37
	Lb/h	380	369	357	344	329	314	298

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.249718E+03	1.181235E+03	5.657232E+00	6.960129E+01
C2	3.488335E+02	1.017810E+00	2.975786E-03	3.270572E+00
C3	1.019737E+02	-1.165184E+01	-5.189526E-02	1.679907E+00
C4	3.280241E+00	-2.393007E-01	-1.086759E-03	2.424780E-02
C5	-7.918361E-01	7.282232E-02	3.592227E-04	4.072472E-03
C6	-1.734406E+00	1.607366E-01	7.117937E-04	-2.017510E-02
C7	2.131856E-02	-4.814542E-04	-2.090120E-06	2.356815E-04
C8	-1.782611E-02	1.474322E-03	6.694073E-06	-6.619607E-05
C9	-2.260787E-03	5.957369E-04	2.514827E-06	-4.496686E-05
C10	5.264821E-03	-6.451858E-04	-2.848938E-06	5.133153E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWG5520EVA

General Information

Model	AWG5520EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	5080	4490					
	Watts	976	979					
	Amps	3.77	3.77					
	Lb/h	65.5	60.3					
-10	Btu/h	6270	5580	4870				
	Watts	1040	1050	1050				
	Amps	4.02	4.05	4.05				
	Lb/h	80.4	74.4	67.8				
-5	Btu/h	7630	6830	6020	5210			
	Watts	1110	1130	1140	1140			
	Amps	4.28	4.33	4.36	4.36			
	Lb/h	97.2	90.5	83.1	75.2			
0	Btu/h	9160	8250	7330	6410	5510		
	Watts	1170	1200	1220	1230	1230		
	Amps	4.52	4.60	4.67	4.70	4.70		
	Lb/h	116	109	100	91.7	82.6		
5	Btu/h	10900	9850	8810	7770	6750		
	Watts	1240	1270	1300	1320	1320		
	Amps	4.75	4.86	4.96	5.04	5.07		
	Lb/h	137	129	120	110	100		
10	Btu/h	12800	11600	10500	9290	8150	7050	6010
	Watts	1300	1340	1370	1400	1420	1430	1420
	Amps	4.96	5.11	5.25	5.37	5.44	5.47	5.43
	Lb/h	159	151	141	131	120	109	97.9
15	Btu/h	14800	13600	12300	11000	9710	8480	7310
	Watts	1350	1400	1450	1490	1520	1540	1540
	Amps	5.16	5.35	5.53	5.68	5.80	5.88	5.89
	Lb/h	184	175	165	154	142	130	118
20	Btu/h	17100	15700	14300	12900	11400	10100	8760
	Watts	1400	1460	1520	1570	1610	1650	1660
	Amps	5.33	5.56	5.78	5.99	6.15	6.27	6.34
	Lb/h	211	201	190	178	166	153	140

25	Btu/h	19500	18000	16500	14900	13300	11800	10400
	Watts	1440	1510	1580	1650	1700	1750	1780
	Amps	5.48	5.75	6.02	6.27	6.49	6.66	6.78
	Lb/h	240	229	218	205	192	179	165
30	Btu/h	22200	20500	18800	17100	15400	13800	12200
	Watts	1470	1550	1640	1720	1790	1850	1890
	Amps	5.59	5.91	6.23	6.53	6.80	7.03	7.20
	Lb/h	270	259	247	234	221	207	192
35	Btu/h	25000	23200	21400	19500	17700	15900	14100
	Watts	1490	1590	1690	1780	1870	1940	2000
	Amps	5.67	6.04	6.41	6.77	7.09	7.38	7.61
	Lb/h	303	292	279	266	251	236	221
40	Btu/h	28100	26100	24100	22100	20100	18100	16200
	Watts	1500	1620	1730	1840	1940	2030	2110
	Amps	5.71	6.14	6.56	6.97	7.36	7.70	8.00
	Lb/h	338	326	313	299	284	268	252
45	Btu/h	31300	29200	27100	24900	22700	20600	18500
	Watts	1500	1630	1760	1880	2000	2110	2210
	Amps	5.71	6.19	6.67	7.15	7.59	8.00	8.36
	Lb/h	375	363	349	334	319	303	286
50	Btu/h	34700	32500	30200	27900	25500	23200	21000
	Watts	1480	1630	1780	1920	2060	2180	2290
	Amps	5.66	6.20	6.75	7.28	7.79	8.27	8.69
	Lb/h	414	401	387	372	356	339	322
55	Btu/h	38400	36000	33500	31000	28500	26100	23600
	Watts	1450	1620	1780	1940	2100	2240	2380
	Amps	5.56	6.17	6.77	7.37	7.95	8.50	8.99
	Lb/h	455	442	427	412	395	378	360

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.313727E+04	1.136406E+03	4.775393E+00	1.245161E+02
C2	4.854820E+02	2.577976E+00	9.580911E-03	4.635334E+00
C3	1.322652E+01	-4.394110E+00	-2.815656E-02	6.873508E-01
C4	4.259652E+00	-1.961203E-01	-7.066472E-04	3.406142E-02
C5	-1.807686E+00	9.823320E-02	3.340721E-04	-3.899125E-03
C6	-1.080134E+00	9.717744E-02	4.764417E-04	-1.250548E-02
C7	4.124852E-03	-1.566822E-03	-5.060503E-06	1.302309E-05
C8	-9.039645E-03	1.772911E-03	5.830530E-06	6.712536E-05
C9	-2.576609E-03	3.680017E-04	1.746520E-06	-5.819763E-05
C10	3.670163E-03	-4.528025E-04	-2.058891E-06	3.221128E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature